



Barnes Air National Guard (ANG) Base Restoration Advisory Board Meeting #10 January 30, 2025



Agenda



- 6:00 PM Agenda Review and Meeting Logistics
- 6:10 PM Welcome and Introductions
- 6:20 PM RAB Business
- 6:35 PM Environmental Restoration Program Status Update
- 7:15 PM Public Questions and Comments
- 7:25 PM Closing Remarks
- 7:30 PM Adjourn



Meeting Logistics

Amy Brand

Jacobs

RAB Facilitator



Meeting Guidelines

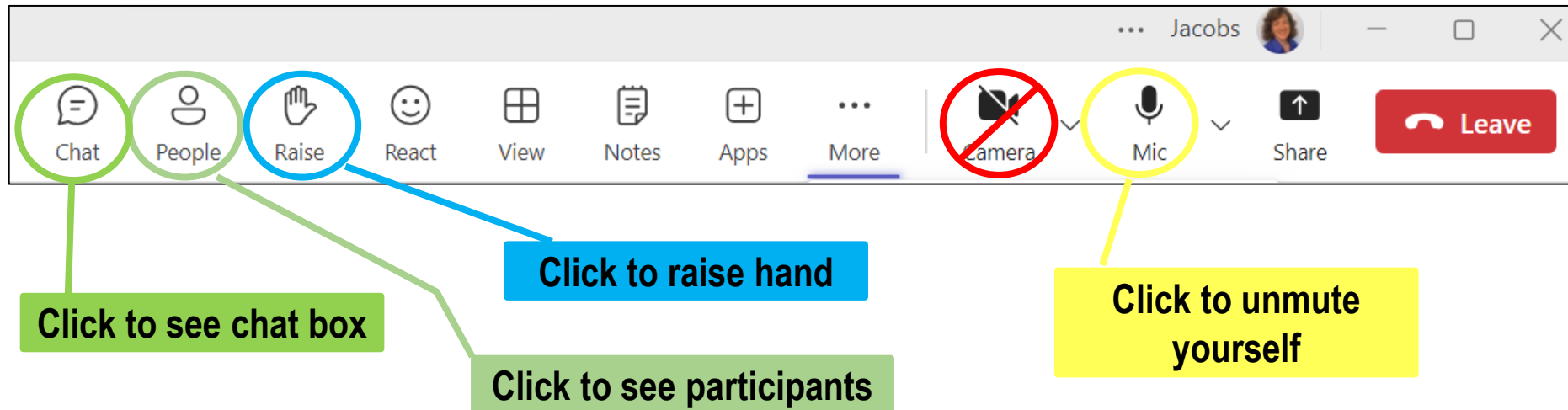


- RAB Members
 - Ask questions at the end of each topic
 - Raise hand to be called on to speak
 - Introduce yourself so that everyone (in room and online) knows who is speaking
 - Please observe a 2-minute limit to enable other RAB members to participate.
- Public Participants
 - Hold questions to the end of the meeting
 - In the room, raise hand and introduce yourself when called on
 - Online, submit questions through the “chat feature”
 - Questions will be read and addressed at the end of the meeting



MS Teams - Computer

- Camera – **Turn OFF** to save bandwidth – presentation will be on screen
- Participants – On the lower right, click on **Participants** to open panel
- To ask a question:
 - RAB Members - **Raise hand** to be called on to speak, **unmute** yourself when called on
 - Public participants – Use **Chat** to type your question





MS Teams Basics – Telephone Participants



- Follow along on the slide presentation (emailed or download from 104th Fighter Wing website at <https://www.104fw.ang.af.mil/About/Restoration-Advisory-Board/>)
- Use your phone mute button when not speaking
- Dial *5 to raise hand to be called on to speak after the presentation
 - Use *6 or your phone mute button to unmute and identify yourself when asking a question or making a comment
- Any RAB members using a phone? Please identify at beginning of meeting



Welcome and Introductions

Kathleen Hillman
Col. David Halasi-kun



Welcome and Introductions



Air National Guard Team

Col. David Halasi-kun (Base Co-Chair)

Robert Lewis, National Guard Bureau

Jennifer Baker, 104th FW Environmental Coordinator

Contractors: BB&E, Jacobs (Amy Brand, RAB facilitator)

Community RAB Members

Kathleen Hillman, Community Co-Chair

Mary Ann Babinski

Chris Clark

Sandi Gil

Kristen Mello

Mary O'Connell

Jane Okscin

Representative Kelly Pease

Dawn Thomas

Senator John Velis

Regulatory Contact

Caprice Shaw, Massachusetts Department of Environmental Protection (MassDEP)



Welcome and Introductions

U.S. Army Corps of Engineers (USACE) Team

Amanda Martin, Project Manager/ Technical Lead

Grace Greenberg, Risk Assessor

Jennifer Apell, PhD, Project Chemist

Mike Narcisi, Wetland Ecologist/Soil Scientist

Dan Folan, PhD, PG, LSP, Geologist/Hydrogeologist

Whitney Sauvé, PE, Environmental Engineer

SRS-Battelle JV Team (USACE Contractor)

Andrew Barton, Battelle, Project Manager

James Griffin, SRS, Alternate Project Manager



RAB Business

Amy Brand, Jacobs

Robert Lewis, National Guard Bureau

Emma Kosub, Dawson



Robert Lewis

National Guard Bureau
Remedial Project Manager

Phone: 240-612-8473
Email: robert.lewis.100.ctr@us.af.mil



Barnes ANGB

Community Involvement Plan (CIP) Update

Alexandra Jangrell-Tackett
Program Manager
DAWSON



Barnes ANGB CIP Update

DAWSON Community Involvement Overview:

DAWSON's community involvement team includes experts on community engagement and risk communication. Our staff have an average of 10+ years of experience in community involvement support. We support a diverse set of clientele such as U.S. EPA, DoD, U.S. CBP, and others.

Key Personnel for Barnes ANGB CIP Update:

- Ms. Jangrell-Tackett, Program Manager holds a BS in Marine Science/Chemistry and MS in Environmental Science and Policy. Ms. Jangrell-Tackett specializes in Program Management for environmental projects focusing on community involvement, environmental regulatory compliance, and due diligence.
- Ms. Emma Kosub, Project Manager holds a BA in Sociology with a minor in Political Science and an MPAff in Public Affairs. Ms. Kosub specializes in Community Involvement under CERCLA.



Barnes ANGB CIP Update



CIP Update Overview:

A Community Involvement Plan (CIP) is a site-specific strategy and set of communications methods to support meaningful community involvement throughout the CERCLA process. The Air National Guard (ANG) is currently working on updating the CIP for Barnes ANG Base (ANGB). We are seeking input from RAB members and the local community.

Goals of the Barnes CIP:

- Help local communities understand the Superfund process and cleanup activities at the installations
- Gauge community interests, knowledge, concerns, and preferred methods of communication
- Apply those methods to help community members stay informed and actively involved



Barnes ANGB CIP Update



Current Activities:

- Development of Draft CIP
- Request for RAB member and public input via a virtual questionnaire (on SurveyMonkey) and/or phone interview, if requested, to walk through questionnaire
- The survey invites input specific to community concerns about Barnes ANGB
- Responses are confidential and anonymous
- If you know of any family, friends, or coworkers that you think may want to participate in this survey, please forward it along to them
- Please scan the QR code or follow the link below to provide your input.



<https://www.surveymonkey.com/r/BarnesANGB>

Points of contact for Barnes ANGB:

Public Affairs Officer Email:

Jerry Hewitt jerry.hewitt@us.af.mil

Website: <https://www.104fw.ang.af.mil/>

Support Contractor Point of Contact:

Emma Kosub: ekosub@dawsonohana.com

15



Barnes ANGB CIP Update



Upcoming Activities:

- Social Media Post to be shared by ANG and any local community partners
- RAB Review of Draft Final CIP

Your input is greatly appreciated!

<https://www.surveymonkey.com/r/BarnesANGB>





Meeting Summaries

- Draft meeting summary from last RAB Meeting emailed to the RAB January 23 – any comments?
 - Draft posted on the 104th FW website:
<https://www.104fw.ang.af.mil/About/Restoration-Advisory-Board/>



Upcoming Meetings

- Dates
 - Fourth Thursday of the month, every 3 months: January, April, July, October
 - Adjustments to be made when needed
 - Upcoming meetings: April 24, 2025
 July 24, 2025
 October 23, 2025



Technical Assistance for Public Participation (TAPP) Grant

- FY24 TAPP Grant (#2)
 - RAB members voted by majority to pursue a TAPP focused on gaining a better understanding of health implications of site contaminants and exposure scenarios
 - Project awarded September 2024
- FY25 TAPP Grant (#3)
 - RAB members voted by majority to pursue a TAPP focused on site co-contaminants, the UFP-QAPP, state and federal clean up standards, and the implications of each
 - Currently pursuing funds assurance for FY25 funds



RAB Member Discussion



- Please raise your hands and unmute yourself when recognized.
- Introduce yourself at the beginning of your question or comment.
- Please limit questions to 2 minutes to give other RAB members an opportunity to participate.



Environmental Restoration Program Status Update

Robert Lewis
National Guard Bureau
Remedial Project Manager



Environmental Restoration Program

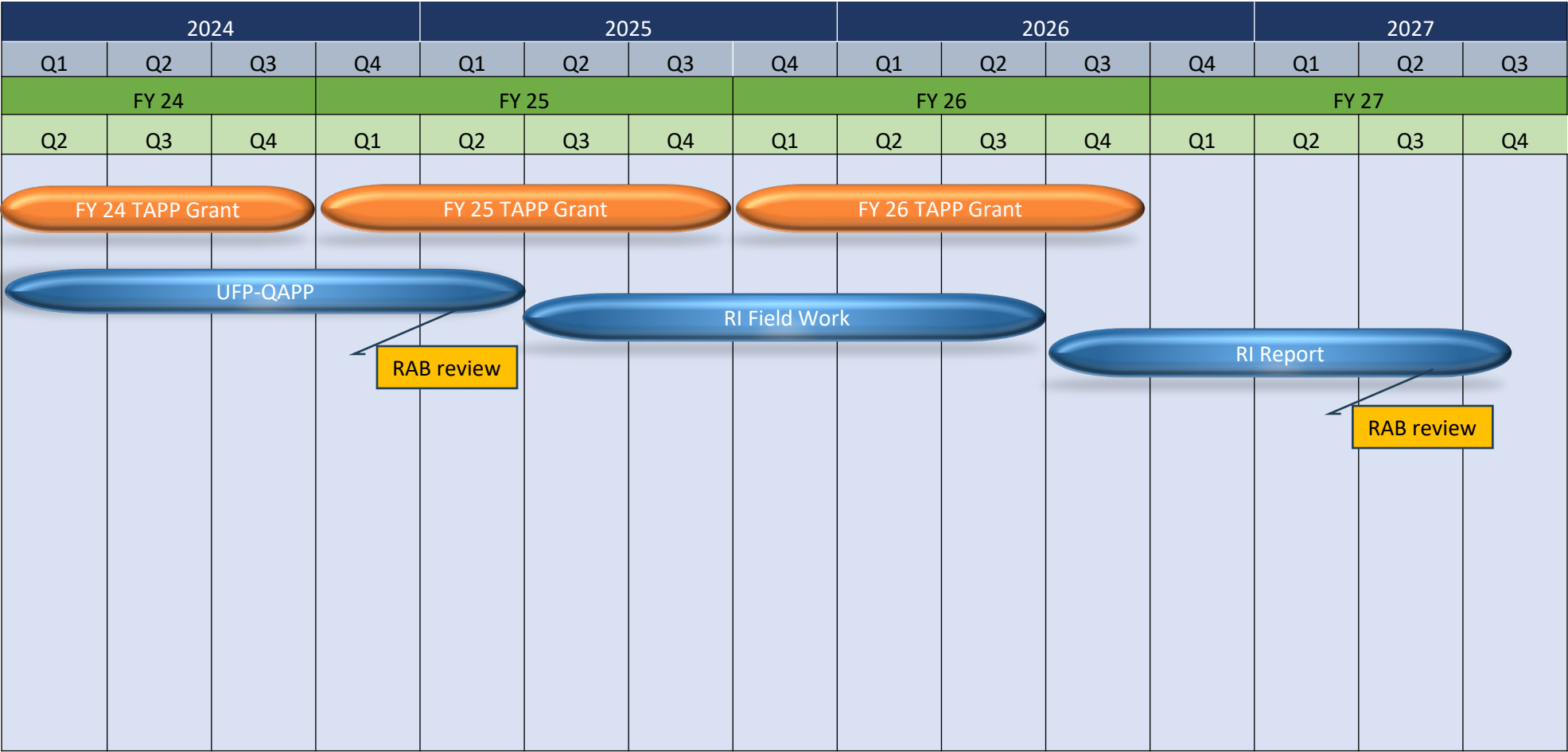


- PFAS Remedial Investigation (RI)
 - Uniform Federal Policy-Quality Assurance Project Plan (UFP-QAPP) – submitted for RAB and MassDEP review in January 2025
 - Start of field sampling activities, Spring 2025



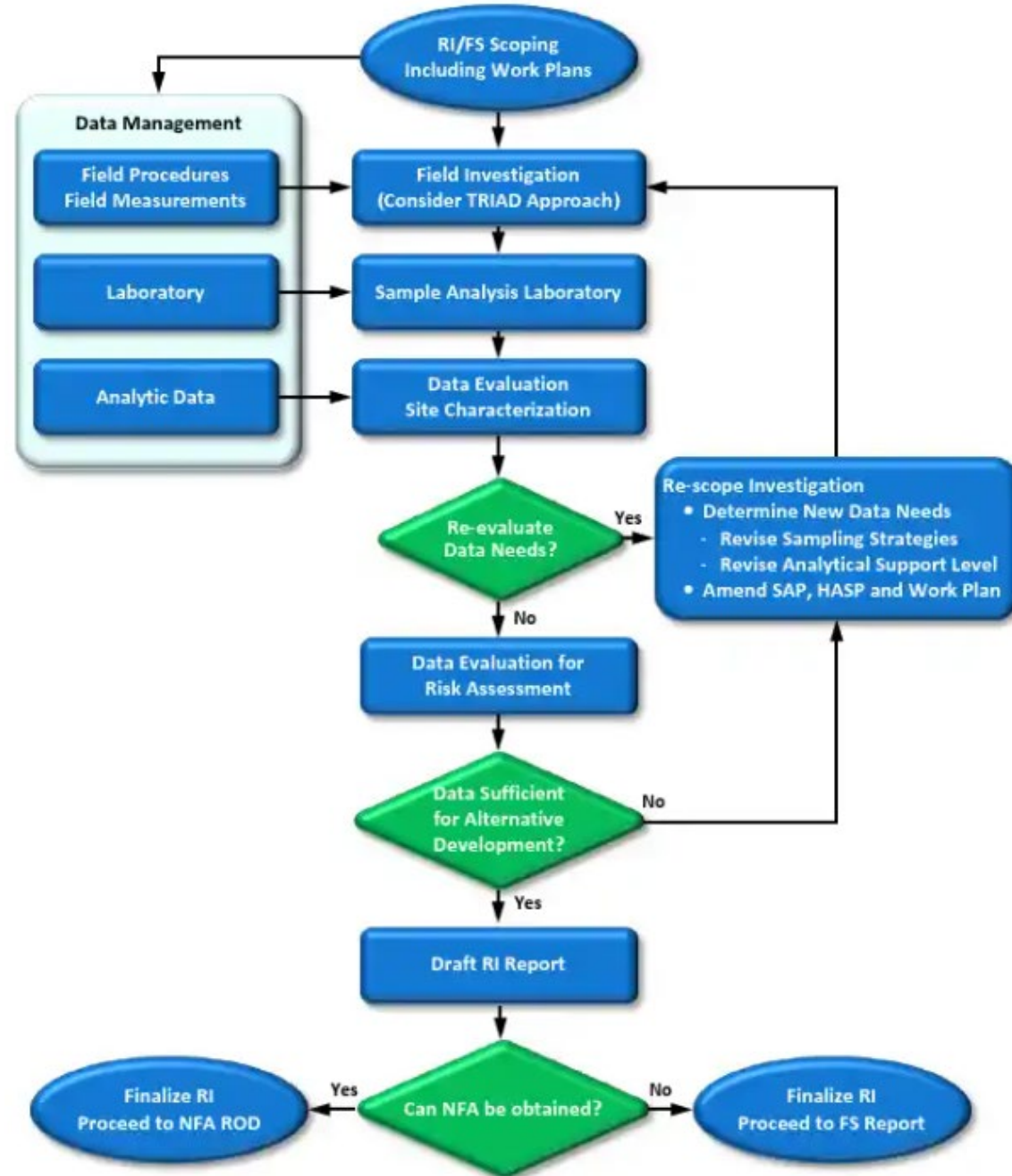


Barnes Restoration Calendar





PFAS Remedial Investigation (RI) Updates



Reference: Department of Navy
Environmental Restoration Program
Manual, 2018



Regional Screening Levels

- On Jan 17, 2024, DoD adopted the November 2024 EPA Regional Screening Levels.
- The DoD memorandum is effective immediately and supersedes the Nov 2023 RSLs.
- The change to the RSLs will be reflected in the Final QAPP.
- For plume delineation, the lower of the RSL or MCL will be used, and where the RSL is below the EPA Method 1633 Method Detection Limit (MDL), the MDL will be used.



Remedial Investigation (RI) Data Quality Objectives (DQOs)

- The primary objective of the PFAS RI is to define the nature and extent of DoD-related PFAS, identify exposure pathways, and assess associated risks to determine if a remedial action is required.
- Project data quality objectives (DQOs) are established in the RI planning document, the Unified Federal Policy Quality Assurance Project Plan (UFP-QAPP), to document the systematic planning process for collecting data to meet the overall objectives.
- The DQOs will dictate the RI field sampling approach to ensure the appropriate medium-specific samples are collected to satisfy the DQOs.

Note: This is currently the first phase of the RI. Additional data collection is anticipated and will be scoped based on the findings of the initial results.



Work Plan Format – Quality Assurance Project Plan



- The QAPP work plan format includes 37 worksheets that serve various purposes: defining the project team, setting objectives, defining how to calibrate laboratory instruments, etc.
- Many worksheets are specific to how the laboratory and consultant teams will perform the work

#1 & 2: Title and Approval Page
#3 & 5: Project Organization and QAPP Distribution
#4, 7 & 8: Personnel Qualifications and Sign-off Sheet
#6: Communication Pathways
#9: Project Planning Session Summary
#10: Conceptual Site Model
#11: Project/Data Quality Objectives
#12: Measurement Performance Criteria
#13: Secondary Data Uses and Limitations
#14/16: Project Tasks & Schedule
#15: Project Action Limits and Laboratory-Specific Detection/Quantitation Limits
#17: Sampling Design and Rationale
#18: Sampling Locations and Methods
#19 & 30: Sample Containers, Preservation, and Hold Times

Worksheets
that may be of
particular
interest for RAB
review

#20: Field QC Summary
#21: Field SOPs
#22: Field Equipment Calibration, Maintenance, Testing, and Inspection
#23: Analytical SOP's
#24: Analytical Instrument Calibration
#25: Analytical Instrument and Equipment Maintenance, Testing, and Inspection
#26 & 27: Sample Handling, Custody, and Disposal
#28: Analytical Quality Control and Corrective Action
#29: Project Documents and Records
#31, 32 & 33: Assessments and Corrective Action
#34: Data Verification and Validation Inputs
#35: Data Verification Procedures
#36: Data Validation Procedures
#37: Data Usability Assessment



Work Plan Format – Quality Assurance Project Plan



- Worksheets of particular interest to the RAB would likely include:
 - *Worksheet #10: Preliminary* Conceptual Site Model* – Site history, investigation history and findings to date. Includes key information about the physical features of the property (groundwater flow direction, geology, more).
 - *Worksheet #11: Data Quality Objectives* – Details the goals of the investigation, how data will be determined to be of good quality, and how it will be used.
 - *Worksheets #14 & 16: Project Tasks and Schedule* – Describes each activity to be performed in the field (e.g., groundwater vertical aquifer sampling, surface soil sampling) and includes an approximate schedule.

**The CSM is an iterative “living” understanding of the site, updated using new data and information.*



Work Plan Format – Quality Assurance Project Plan



- Worksheets of particular interest (continued):
 - [Worksheet #17: Sampling Design and Rationale](#) – Reiterates concisely field efforts to be performed and refers to other worksheets for detailed rationale (Worksheets #10 and 14)
 - [Worksheet #18: Sampling Locations and Methods](#) – Includes tables detailing sample IDs, sample types, numbers of samples, and depths at which they will be collected. Includes the areas to be sampled and the rationale for the sampling.
- Figures are important to reference while reviewing these worksheets.

Bookmarks available in PDF

UFP-QAPP Worksheet #34 – Data Verification and Validation Inputs
UFP-QAPP Worksheet #35 – Data Verification Procedures
UFP-QAPP Worksheet #36 – Data Validation Procedures
UFP-QAPP Worksheet #37 – Data Usability Assessment
REFERENCES
✓ Figures
Figure 1 Site Location
Figure 2 AOC1
Figure 3 AOC2
Figure 4 AOC4
Figure 5 AOC5
Figure 6 AOC6
Figure 7 AOC7
Figure 8 AOC8
Figure 9 Groundwater Sampling Locations
Figure 10a Proposed Surface Water and Sediment Locations - North



Project Field Scope (Worksheet #14 & 16)

- ☐ Site Access Agreements
- ☐ Utility Location & Permit Compliance
- ☐ Surface Soil Sampling
- ☐ Subsurface Soil Sampling
- ☐ Surface Water & Sediment Sampling
- ☐ Vertical Aquifer Sampling (Groundwater)
- ☐ Groundwater Monitoring Well Installation
- ☐ Borehole Geophysical Logging
- ☐ Monitoring Well Development
- ☐ Low Flow Groundwater Sampling
- ☐ Groundwater and Surface Water Elevation Gauging & Measurement
- ☐ Location Surveying
- ☐ Habitat Assessment
- ☐ Investigation Derived Waste Management & Disposal
- ☐ Field Record Management & Reporting



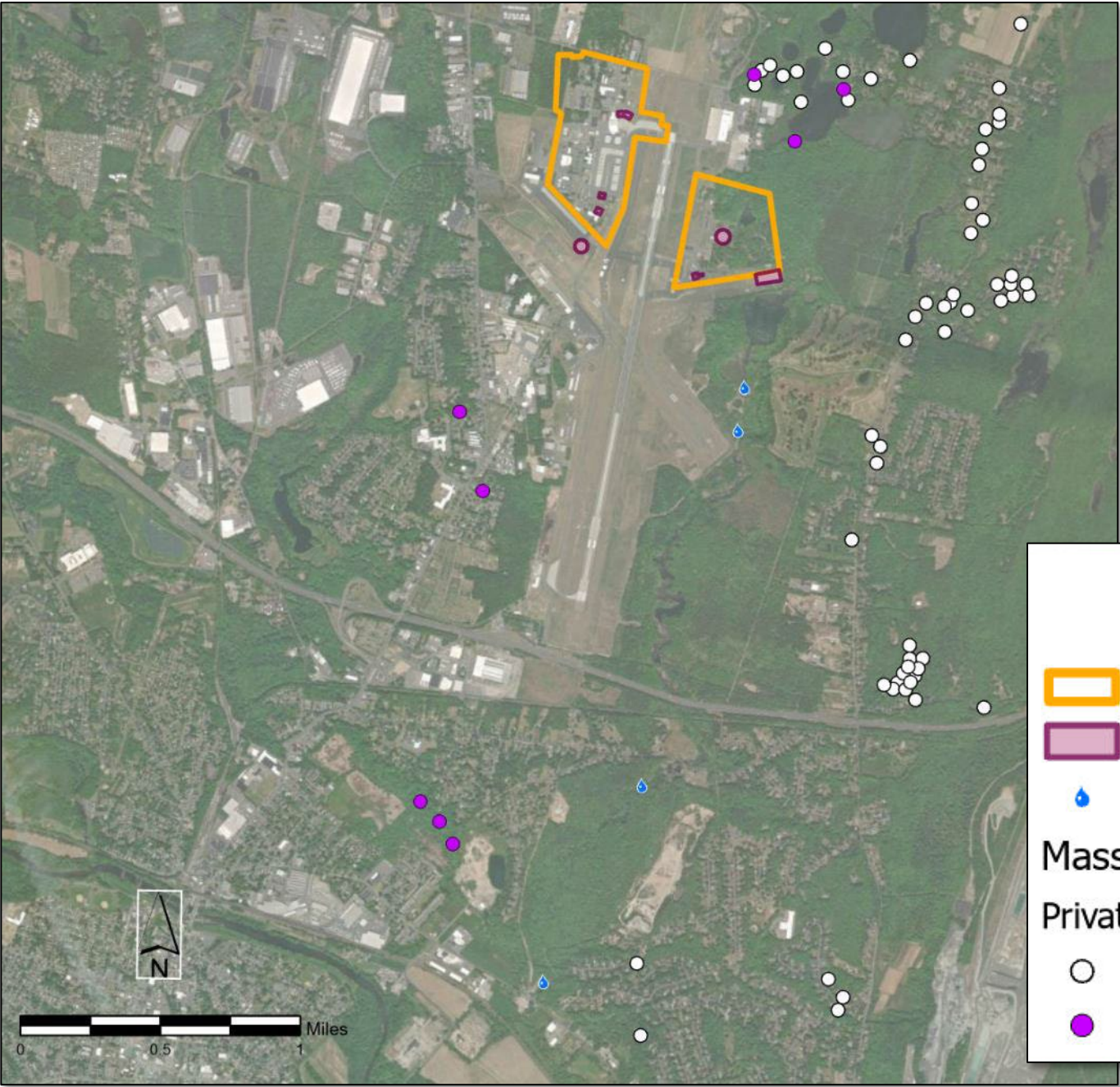
Site Layout

- AOC 1 – Former Fire Training Area
- AOC 2 – Former Fire Training Area
- AOC 4 – Hangars 27A and 27B
- AOC 5 – Former Fire Station
- AOC 6 – Current Fire Station
- AOC 7 – Hush House
- AOC 8 – Fire Department Equipment Test Area





Regional Map



Legend

Installation Boundary

AOC Boundary

Public Water Supply

MassDEP

Private Wells Sampled

No POET

POET

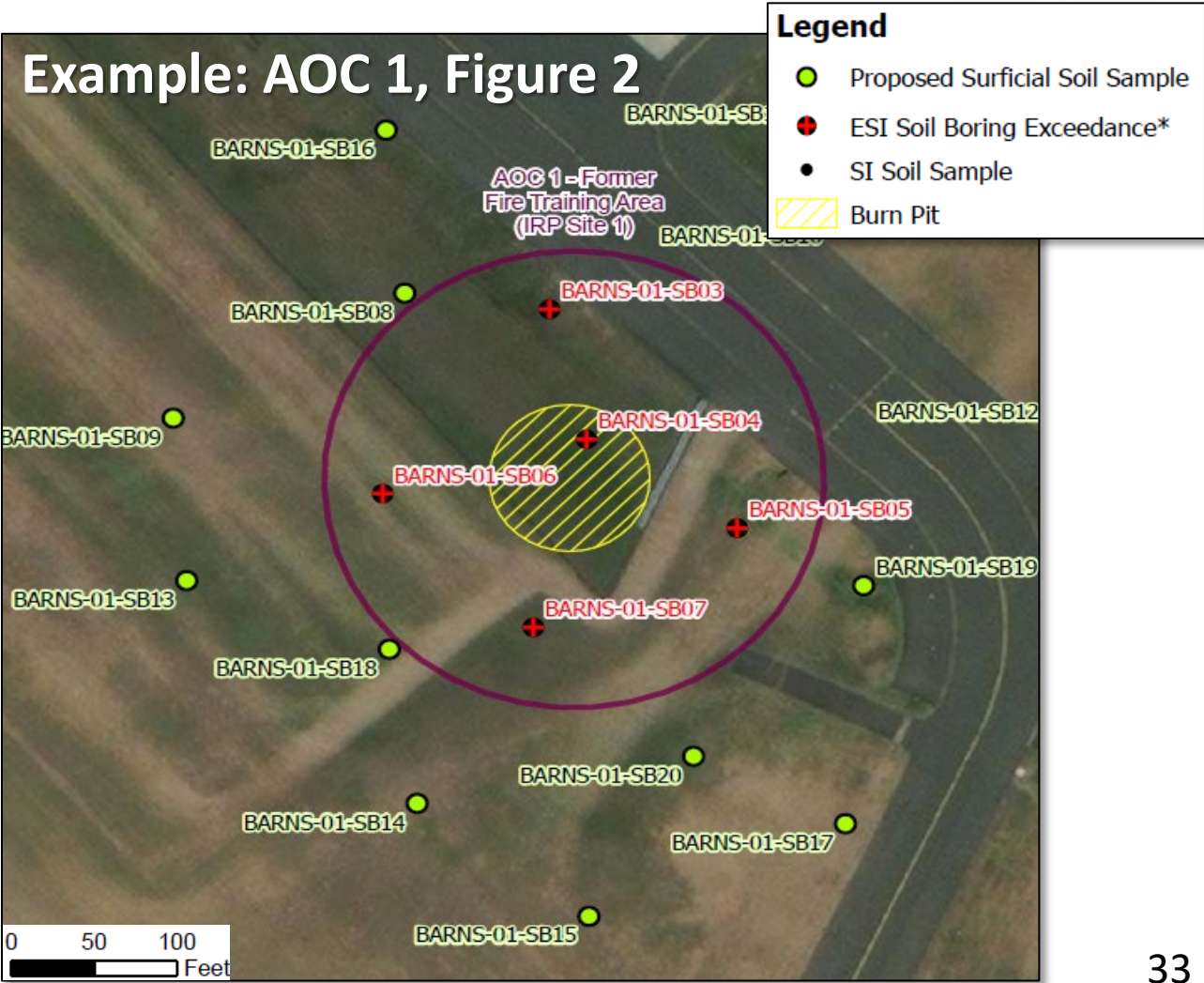
POET = Point of Entry
Treatment System



Soil Sampling

Area	# of Samples	Question to be Answered
AOC-1	13	<ul style="list-style-type: none">Where did releases of materials containing PFAS occur?Where and at what concentrations are PFAS present in soils now?
AOC-2	10	
AOC-4	8	
AOC-5	10	
AOC-6	10	
AOC-7	11	
AOC-8	10	

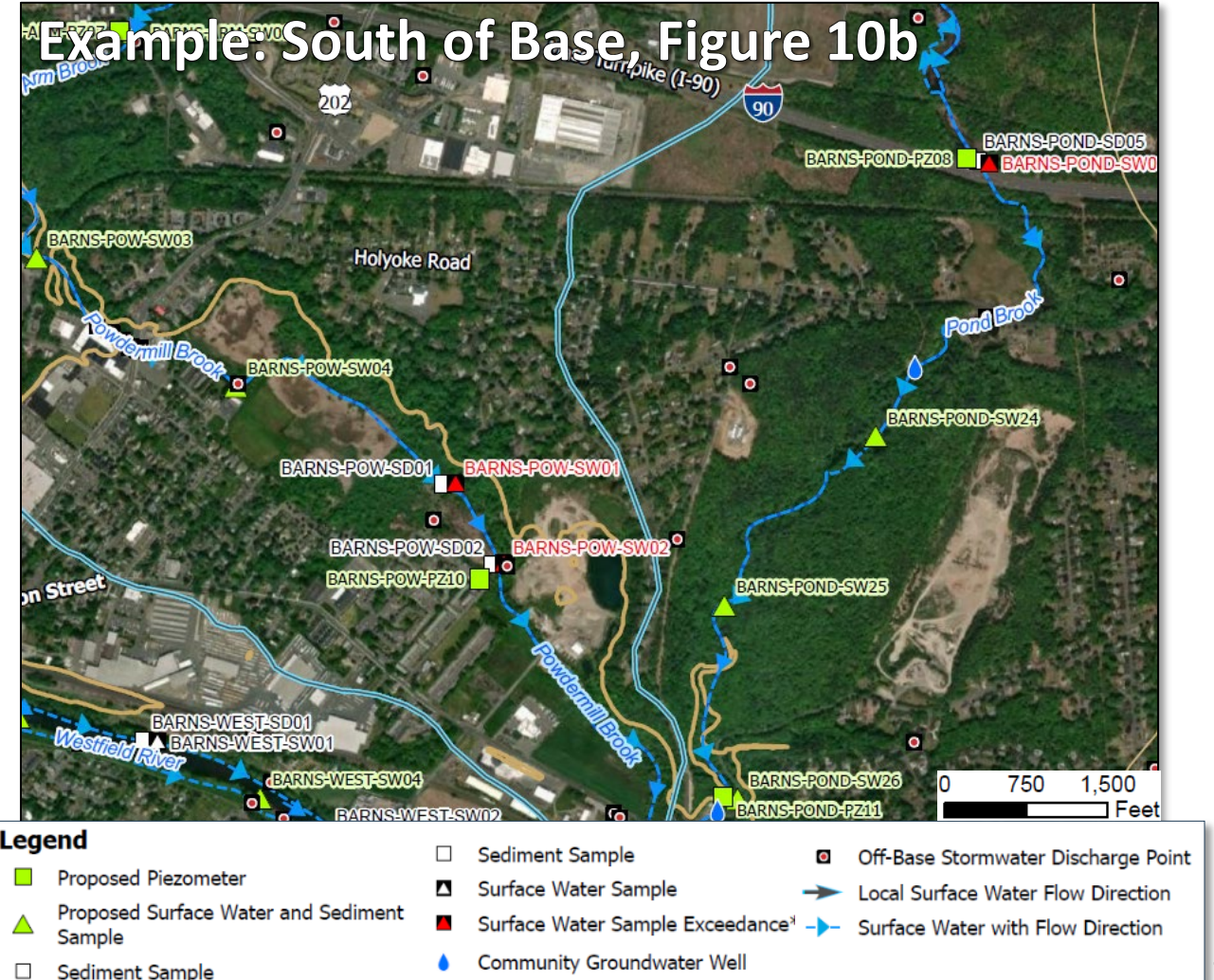
Notes: 1) Subsurface soil borings will also be drilled based on surface soil results
2) AOC = “Area of Concern”, typical nomenclature for investigation areas





Surface Water and Sediment Sampling

Location	# of Samples	Questions to be Answered
Arm Brook	9	<ul style="list-style-type: none">Determine what PFAS are present in surface water and sediment adjacent to, upstream, and downstream of known or suspected PFAS release areas.Evaluate spatial relationship of PFAS in surface water and sediment to locations of stormwater outfalls.
Powdermill Brook	7	
Pequot, Long, Horse, Doe, Round, Buck, Chapin Ponds & Pond Brook	27	
Westfield River	8	

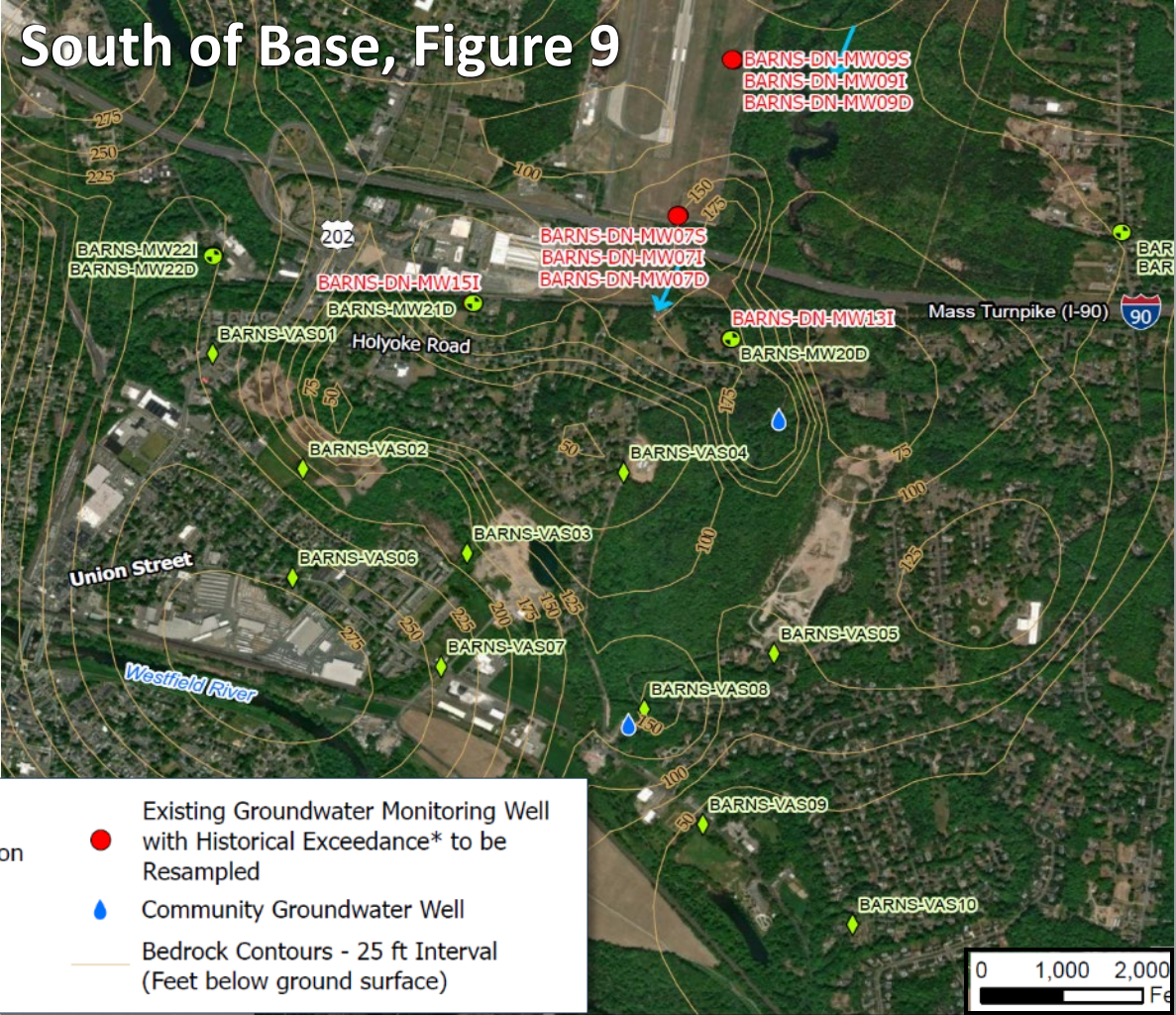




Vertical Aquifer Sampling (Groundwater)

# of Loc.	Depths	Question to be Answered
10	Top of water table + 3 based on soil type	Collect groundwater samples to evaluate the spatial distribution of PFAS in groundwater and assess where permanent wells should be located and what depth of groundwater they should screen

Note: Permanent monitoring wells will be located in these areas based on the results of the analyses





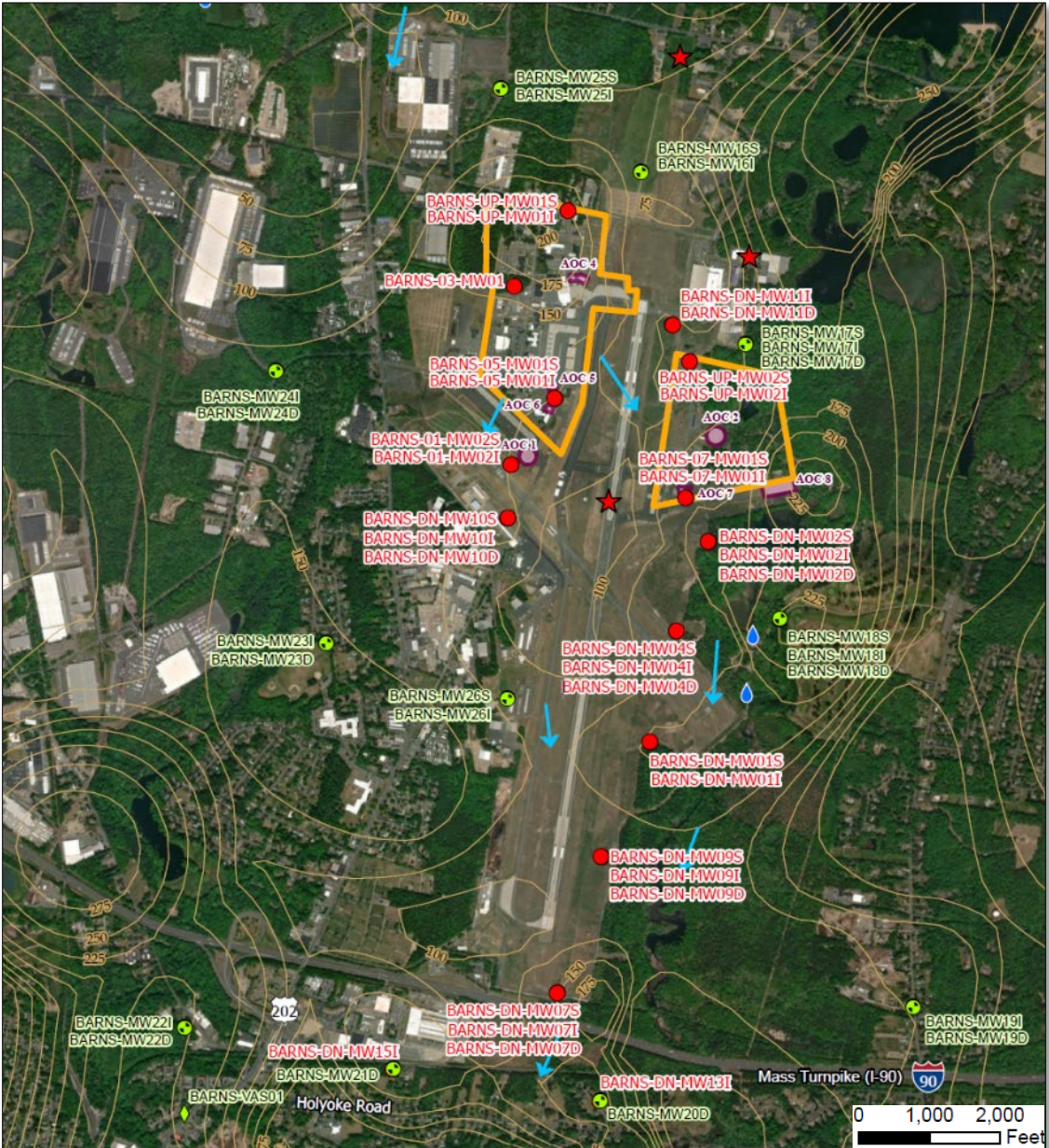
Groundwater Sampling

Location	# of Samples	Depths (ft bgs)	Question to be Answered
AOC-1	2	34-44, 63-73	Confirm PFAS concentrations in existing monitoring wells
AOC-3	1	3-13	
AOC-5	2	22-32, 70-80	
AOC-7	2	44-54, 80-90	

Legend

- Proposed VAS Sampling Location
- Proposed Monitoring Well
- Known AFFF Release
- Existing Groundwater Monitoring Well with Historical Exceedance* to be Resampled

- Community Groundwater Well
- Bedrock Contours - 25 ft Interval (Feet below ground surface)
- Approximate Groundwater Flow Direction
- Installation Boundary
- Area of Concern (AOC) - Approximate





RAB Member Discussion



- Please raise your hands and unmute yourself when recognized.
- Introduce yourself at the beginning of your question or comment.
- Please limit questions to 2 minutes to give other RAB members an opportunity to participate.



Public Questions and Comments



In person: Raise hand to be recognized
Online: Submit questions using chat



Contact Information



104th Fighter Wing, Barnes Air National Guard Base

Base Co-Chair
Commander
Col. David Halasi-kun

Environmental Manager
Jennifer Baker

Public Affairs Manager
Jay Hewitt
(413) 568-9151 x 698-1202
Jerry.hewitt@us.af.mil

Community Co-Chair

Kathleen Hillman khillman179@gmail.com

RAB members, please submit questions and comments through your Community Co-Chair

National Guard Bureau

Program Manager
Robert Lewis
(240) 612-8473
robert.lewis.100.ctr@us.af.mil

Massachusetts Department of Environmental Protection

Caprice Shaw
(413) 540-6253
Caprice.shaw@mass.gov



Websites for More Information



Environmental Restoration Program at 104th Fighter Wing

- General and Links to PFOS/PFOA Information: <https://www.104fw.ang.af.mil/About/Environmental/>
- Restoration Advisory Board: <https://www.104fw.ang.af.mil/About/Restoration-Advisory-Board/>

Relative Risk Site Evaluation (RRSE)

- Barnes RRSE: https://www.104fw.ang.af.mil/Portals/5/Barnes_RRSE%20Fact%20Sheet%20and%20Scoring%20Summaries_211215.pdf
- RRSE Primer: https://www.denix.osd.mil/references/dod/policy-guidance/relative-risk-site-evaluation-primer/RRSE_Primer_Summer1997.pdf

104th Fighter Wing Environmental Administrative Record

- <https://ar.afcec-cloud.af.mil/Search.aspx> (Select ANG radio button, select Barnes, and click on search)

MassDEP PFAS Information

- <https://www.mass.gov/info-details/per-and-polyfluoroalkyl-substances-pfas>

Westfield Water Department PFAS Information

- <https://www.cityofwestfield.org/672/PFCs-Information-Updates>

RAB Rule Handbook and Information on Technical Assistance for Public Participation

- <https://www.denix.osd.mil/rab/home/>

Air Force Response to PFOS and PFOA

- <https://www.afcec.af.mil/WhatWeDo/Environment/Perfluorinated-Compounds/>



Closing Remarks

Kathleen Hillman
Col. David Halasi-kun



Adjourn